

99847-5  
for

23 February 1965

MEMORANDUM FOR: Director, NPIC

SUBJECT: Approval for Development of Low-Power, Wide-Field  
Objectives

REFERENCE: Chief, Administrative Staff, O/DDI, Memorandum Dated  
4 February 1964, Approval of Research and Development  
Activities

In accordance with the authority delegated in paragraph 3. of the  
reference, approval for the development of low-power, wide-field  
objectives in the amount of [redacted] as described in Attachment "A"  
is requested.

[redacted]  
Assistant for Plans and Development, NPIC

APPROVED: [redacted]

ARTHUR C. LUNDAHL  
Director, NPIC

Date

Attachment "A"

Distribution

Orig. & 2 - LB/SS/NPIC'  
1 - O/Dir  
1 - P&DS

LB/SS/NPIC/[redacted] (23 Feb 1965)

Declass Review by NGA.

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## R &amp; D CATALOG FORM

DATE

7 January 1965

## 1. PROJECT TITLE/CODE NAME

Low-Power, Widefield objectives

## 2. SHORT PROJECT DESCRIPTION

A prototype pair of low-power widefield objectives are to be developed for use with the [ ] High-Power Stereo Viewer.

## 3. CONTRACTOR NAME

## 4. LOCATION OF CONTRACTOR

## 5. CLASS OF CONTRACTOR

Manufacturer

## 6. TYPE OF CONTRACT

FP

## 7. FUNDS

FY 1965

## 8. REQUISITION NO.

NA

## 9. BUDGET PROJECT NO.

NP-V-16

FY 19

\$

10. EFFECTIVE CONTRACT DATE  
(Begin - end)

March 1965 - June 1965

## 11. SECURITY CLASS.

A. A. - Conf.

T. - Unclass.

W. - Unclass.

FY 19

\$

## 12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION

DDI/NPIC/P&amp;DS/ [ ]

## 13. REQUIREMENT/AUTHORITY

These low-power, wide-field objectives are required as a supplement to the higher magnification objectives currently used with the [ ] High-Power Stereoviewer.

## 14. TYPE OF WORK TO BE DONE

Engineering development ~

## 15. CATEGORIES OF EFFORT

## MAJOR CATEGORY

Viewers & Other Interpretation  
Equipment

## SUB-CATEGORIES

Lens Systems

## 16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.

One prototype pair of 1.3X objectives. They will provide a wider field of view for initial location of areas - of interest on photography prior to subsequent high power examination.

## 17. SUPPORTING OR RELATED CONTRACTS (Agency &amp; Other)/COORDINATION

These objectives are to be used on the [ ] High Power Stereo Viewer under Contract [ ] dated 8 June 1964.

## 18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required)

Production models of the [ ] High Power Stereo Viewer are to be equipped with [ ] 3X, 6X and 10X parfocal objectives. The lowest magnification that can be achieved on this instrument using these lenses is 18X. A supplementary low power parfocal objective is required to provide a wider field for initial location of areas of interest on photography.

[ ] has proposed to develop a pair of low-magnification (approximately 1.3X) widefield microscope objectives. Each objective will have a prism cluster in the object space of the lens that folds the optical path, thereby

## 19. APPROVED BY AND DATE

OFFICE

DEPUTY DIRECTOR

DDCI

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## R &amp; D CATALOG FORM (Continued)

18. enabling the lens to be parfocal with the ☐ objectives. The new lens may be used on the viewer's four-position lens turret without interfering with the other objectives.

No-resolution required is specified for this objective since its primary purpose is to provide a wider field for initial location of areas of interest. The ☐ 1.3X objective will provide a low magnification range to supplement the ☐ 3X, 6X and 10X objectives. The magnification ranges that this four lens combination will furnish are:

<u>Objective</u>	<u>Magnification with</u> <u><input type="checkbox"/> 6X Eyepiece</u>	<u>Magnification with</u> <u><input type="checkbox"/> 10X Eyepiece</u>
<input type="checkbox"/> 1.3X	7.8 - 15.6X	13 - 26X
<input type="checkbox"/> 3X	18 - 36X	30-60 X
<input type="checkbox"/> 6X	36 - 72X	60 - 120X
<input type="checkbox"/> 10X	60 - 120X	100-200X

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99847-5

NPIC PROJECT NO.

UNCLASSIFIED  
CLASSIFICATION

RECEIPT OCB/OS

SUPPORT/SERVICE REQUIREMENT

DISSEMINATED OCB/OS

(The following info is required when rqmts are levied by external organizations)

OFFICE \_\_\_\_\_ DATE OF RQMT \_\_\_\_\_ CONTROL NO. \_\_\_\_\_

NPIC DIV/DETACH PROCESSING RQMT \_\_\_\_\_ PROJ OFF \_\_\_\_\_ PHONE \_\_\_\_\_

SUPPORT REQUESTED OF \_\_\_\_\_ PRIORITY \_\_\_\_\_ DATE REQUIRED \_\_\_\_\_

(The following info is required when rqmts are levied for internal support)

DIV/STAFF P&amp;DS \_\_\_\_\_ DATE OF RQMT 18 March 1965 \_\_\_\_\_ CONTROL NO. \_\_\_\_\_

SUPPORT REQUESTED OF P&amp;DS \_\_\_\_\_ PROJ OFF \_\_\_\_\_ 25X1

PRIORITY \_\_\_\_\_ DATE REQUIRED 30 June 1965

## 1. BACKGROUND INFORMATION:

- The work requested is in support of a departmental: ☐ Photo interpretation proj.;  
☐ Non-photo interpretation project. It will result in: ☐ Hard copy report; .  
☐ Informal report (memo); ☒ Basic service only.

Project Description: Low Power Widefield Objectives

## 2. SPECIFIC SUPPORT/SERVICE REQUESTED: Support from NPIC will probably consist of:

- ☐ Photographic; ☐ Reproduction; ☐ Mensuration; ☐ Graphics; ☐ ADP; ☐ Editing;  
☒ Other (explain below) -- (Include statement as to estimated amount of work required of support component(s); i.e., number of contact prints, enlargements, boards, etc.)

A prototype pair of low power widefield objectives is to be developed  
 for use with the \_\_\_\_\_ High Power Stereo Viewer.

Phase I: 7 June 1965  
 Phase II: 1 April 1965  
 Phase III: 30 June 1965

## 3. URGENCY JUSTIFICATION: (If immediate support is required a statement of justification must be made on this form.)

DATE OF COMPLETION

CLASSIFICATION

NPIC FM 218 (4-64)